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# (12) United States Patent

Schrock et al.

# (54) DUAL-SCREEN VIEW IN RESPONSE TO ROTATION

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See application file for complete search history.

#### (56) References Cited

#### U.S. PATENT DOCUMENTS

5,835,090 A 11/1998 Clark et al. 6,331,840 B1 12/2001 Nielson et al. (Continued)

#### FOREIGN PATENT DOCUMENTS

EP 1775925 4/2007

#### OTHER PUBLICATIONS

U.S. Appl. No. 13/341,634, filed Dec. 30, 2011, Selim. (Continued)

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## (57) ABSTRACT

A multi-screen user device and methods for controlling data displayed thereby are disclosed. Specifically, a gesture sequence is disclosed which enables a user to toggle or shift through applications that are displayed by the multi-screen user device. The gesture sequence may correspond to various rotation or partial rotations of the multi-screen user device.

### 18 Claims, 19 Drawing Sheets

